

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Cancelled).
2. (Currently Amended.) The tape of Claim ~~1~~ 24 wherein said inner conductive layer comprises substantially equal parts of metallic powder and PTFE.
3. (Currently Amended.) The tape of Claim ~~1~~ 24 wherein said metallic powder is selected from the group consisting of copper, iron, nickel, aluminum, silver, gold and carbon, alone or in combination.
4. (Currently Amended.) The tape of Claim ~~1~~ 24 wherein it is constructed so that it can be spirally wound and cured on the insulated electrical wire.
5. (Currently Amended.) A method of manufacturing the tape of Claim ~~1~~ 24 wherein said outer insulation layer is coated with said inner conductive layer, and said inner conductive layer is cured thereon.
6. (Original.) The method of Claim 5 wherein said inner conductive layer is heat-cured on said outer insulation layer.
7. (Currently Amended.) The tape of Claim ~~1~~ 24 wherein an outer conductive layer is disposed on the outer surface of said insulation layer and is formed of metallic powder dispersed in a PTFE dispersion or ink solution.
8. (Cancelled.)

9. (Currently Amended.) The tape of Claim ~~8~~ 24 wherein an adhesive with slipsheet layer is disposed on the inner surface of said inner insulation layer.

10. (Currently Amended.) The tape of Claim ~~1~~ 24 wherein said ~~inner~~ conductive layer is formed of metallic powder disposed in a PTFE dispersion or ink solution.

11. (Cancelled.)

12. (Currently Amended.) The shielded electrical wire of Claim ~~11~~ 25 wherein said conductive layer comprises substantially equal parts of metallic powder and PTFE.

13. (Original.) The shielded electrical wire of Claim 12 wherein said conductive layer is formed by dispersing said metallic powder in a PTFE solution, and heating and curing said metallic powder-PTFE mixture on said insulation layer of said tape to form said conductive layer thereon.

14. (Currently Amended.) The shielded electrical wire construction of Claim ~~11~~ 25 wherein said metallic powder is selected from the group consisting of copper, iron, nickel, aluminum, silver, gold and carbon, alone or in combination.

15. (Currently Amended.) The shielded electrical wire of Claim ~~11~~ 25 wherein said tape comprises a second conductive layer surrounding said second insulation layer.

16. (Cancelled.)

17. (Cancelled.)

18. (Cancelled.)

19. (Cancelled.)

20. (Cancelled.)

21. (Cancelled.)

22. (Cancelled.)

23. (Cancelled.)

24. (New) A tape for shielding insulated electrical wire to provide a positive attenuation of and protection from electromagnetic and radio frequency interference, said tape comprising:

a conductive layer formed of metallic powder dispersed in PTFE;

an outer insulation layer formed of PTFE disposed on and bonded to the outer surface of said conductive layer; and

an inner insulation layer formed of PTFE disposed on and bonded to the inner surface of said conductive layer;

said inner and outer insulation layers being offset laterally with respect to each other to expose inner and outer lateral end portions of said conductive layer, thereby enabling the tape to be spirally wound on and bonded to the insulated with abutting insulation layers covering said lateral end portions of said conductive layer.

25. (New) Shielded electrical wire, comprising:

insulated wire;

a first insulation layer formed of PTFE surrounding said insulated wire;

a conductive layer surrounding said first insulation layer to provide a positive attenuation of and protection from electromagnetic and radio frequency interference, said conductive layer comprising metallic powder dispersed in PTFE; and

a second insulation layer formed of PTFE surrounding said conductive layer;
said conductive layer and said insulation layers being formed by a tape having
said layers bonded together that is spirally wound around and cured on said insulated wire;
said first and second insulation layers being offset laterally with respect to each
other on opposite surfaces of said conductive layer to expose inner and outer lateral end portions
thereof which are covered by abutting spirally wound insulation layers.